



# ENVIRONMENTAL SOLUTIONS

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## **ASBESTOS ABATEMENT REPORT**

**(UNDERGROUND TRANSITE PIPES)**

**PREPARED FOR:**

**MR. JOHNNY MARASCO**

**BOEING REALTY CORPORATION**

**PREPARED BY:**

**MICHAEL REZVANI, REA, CAC  
PRINCIPAL CONSULTANT**

**JUNE 30, 1999**

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June 30, 1999  
ES99-040.Rpt

**Mr. Johnny Marasco  
Boeing Realty Corporation  
4060 Lakewood Blvd.  
6th Floor  
Long Beach, California**

**Class II Asbestos Abatement Monitoring Report  
Underground Transite Conduit & Pipes  
Boeing  
19901 Normandie Avenue  
Los Angeles, California**

**Introduction:** Approximately 500 feet of 4" diameter asbestos electrical conduit lines encased in concrete and approximately 200 feet of asbestos water line were uncovered from underground and placed in an assigned area of the subject site by Boeing for proper handling and disposal. This report presents the results of our observations and air monitoring of the subsequent class II asbestos abatement performed by Tri-State Restoration, Inc. The abatement was started on June 24 and completed on June 30, 1999.

**Project Summary:** Tri-State Restoration was retained by Boeing Realty Corporation to perform the class II abatement. The abatement was performed in accordance with the approved specification prepared by Environmental Solutions (see exhibit I).

All transite pipes and conduit were cut in transportable sections and placed in an area called the regulated work area (RWA). This area was taped out with caution tapes and was measured to be approximately 3,300 square feet. The sections were carefully separated from the surrounding concrete encasement, first, by the use of a large jack-hammer and then manually by asbestos abatement workers using hammer and chisel. The process of abatement included three different phases. 1) to perform a rush sweep of the RWA in order to collect large pieces, 2) to separate and collect all pieces of pipe attached to the concrete encasement, and 3) to perform two final clearance sweeps of the RWA from east to west in order to find and collect much smaller pieces of transite.

Environmental Solutions monitored the abatement activities on daily basis. Air samples were collected using low-flow air pumps and the northeast and the northwest corners. The air samples were analyzed daily by phase contrast microscopy (PCM) using NIOSH 7400 method for detection of asbestos fibers in the filters. The air sampling documentation is presented in exhibit III of this report.

Final visual clearance was performed at the completion of the final sweep. The RWA was found to be free of any visible pieces of transite debris. No assessment of the soil conditions was made or


deemed warranted for this project. All transite materials were bagged and sealed and placed in an approved bin for transport to an approved land-filled by BDC transport.

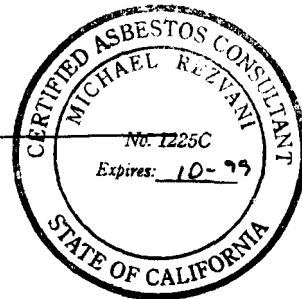
**Conclusion:** Tri-State workers were protected by tyvek suits, half-face respirators and hard hats for the duration of this project. We believe that the abatement activities were performed in accordance with 29 CFR 1926.1101 for handling and disposal of non-friable asbestos materials (class II).

The following exhibits are included and complete this report.

- o Exhibit I Abatement Specification
- o Exhibit II Field Reports
- o Exhibit III Air Sample Documentation

**Environmental Solutions**

  
**Michael Rezvani, REA, CAC**  
**Principal**



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# **EXHIBIT I**

## **ABATEMENT SPECIFICATION**



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## CLASS II ASBESTOS ABATEMENT SPECIFICATION

# BOEING

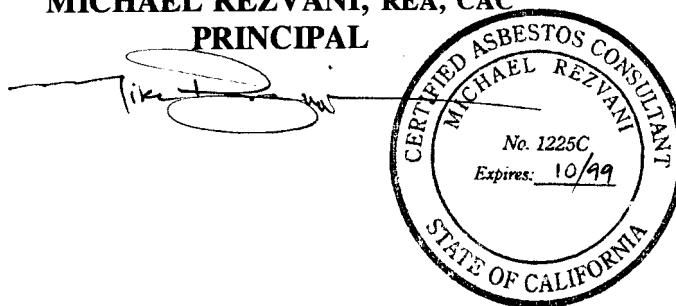
(UNDERGROUND TANSITE PIPES)

Prepared For:

**BOEING REALTY CORPORATION**

BY:

**MICHAEL REZVANI, REA, CAC  
PRINCIPAL**



**JUNE 22, 1999**

# **C O N T E N T S**

## **1.0 SCOPE OF WORK**

- 1.1 General
- 1.2 Specific

## **2.0 GENERAL REQUIREMENTS**

- 2.1. Performance Schedule & Sequence of Work
- 2.2. Reporting Requirements
- 2.3. Applicable Regulation, Codes, and Standards
- 2.4. Notices and Submittals
- 2.5. Warning Signs and Labels

## **3.0 SAFETY**

- 3.1. General
- 3.2. Work Environment
- 3.3. Ladders, Scaffolds, and Work Platforms

## **4.0 AREA CLEARANCE STANDARDS**

- 4.1. Final Air Clearance
- 4.2. Final Inspection
- 4.3. Disposal of Contaminated Materials



## **1.0 SCOPE OF WORK**

### **1.1 General**

- 1.1.1. The work under this section shall include initial area restriction, area preparation, removal of non-friable asbestos containing materials (ACM), final cleanup, and disposal of asbestos-containing materials (transite pipes). This work shall also include any materials contaminated by appreciable amounts (greater than 1 %) of asbestos.
- 1.1.2. Any material encountered during the work procedure for which there is a question as to its asbestos content may simply be removed as suspect asbestos material or can be tested.
- 1.1.3. Tri-State Restoration is responsible for and shall furnish all labor, material, equipment, service, and incidentals necessary for the performance of the work in accordance with scope of work herein.

### **1.2. Specific**

- 1.2.1. Tri-state shall restrict and contain the regulated work areas as designated and discussed during the pre-abatement job-walk to conduct class II ACM removal. The regulated work area (RWA) shall consist of physical marking barriers to restrict entry and exit and one decontamination unit (decon).
- 1.2.2. The decon shall be at the point of entry to RWA. A shower (optional) may be used, for decontamination purposes in the middle air lock.
- 1.2.3. Tri-State shall maintain a HEPA vacuum to decontaminate the adjacent areas having potential for cross-contamination. These areas may become a part of RWA should debris migrate.
- 1.2.4. Tri-State shall remove the broken pieces of transite pipes from the dirt using approved wet methods as prescribed by 29 CFR 1926.1101 for class II abatement. The workers will then separate the transite pipes from the concrete encasement and place each transite piece inside of an asbestos bag/or any approved sealed container for final disposal.
- Note:** The process of breaking the concrete encasement can only be performed efficiently by a large jack-hammer which has the potential to break and disturb the transite pipes. This process of breaking the concrete casing to uncover/separate the transite pipe must be performed by a trained worker who is also protected by respirator and tyvek suit.
- 1.2.5. Tri-State shall use half-face respiratory protection as minimum for removal, transport and disposal process.
- 1.2.6. Tri-State shall perform personnel air sampling on at least one of the workers for the duration of each work-shift. Tri-State should also keep an activity log for record. The consultant is responsible for visual monitoring and/or area air sampling.
- 1.2.7. Tri-State shall be responsible for the safety of its crew and conducting safety meeting prior to the start of work. All workers must have submittals on site for review by Boeing or its consultant.





## **2.0 GENERAL REQUIREMENTS**

This section sets forth all General Requirements covering the scope of work. Tri-State must adhere to these provisions prior to, during, and after any asbestos work activities on the subject site.

### **2.1. Performance Schedule and Sequence of Work**

Tri-State shall commence performance of the Work at jobsite within ten (10) calendar days after receiving Notice to Proceed from Boeing Realty Corporation.

### **2.2. Reporting Requirements**

Tri-State shall promptly submit any schedules, change of schedules and reports to Boeing Realty Corporation and the consultant.

### **2.3. Applicable Regulations, Codes, and Standards**

- 2.3.1. Tri-State shall acknowledge that he is aware of and will maintain compliance with all regulations, codes, standards, and ordinances governing the performance of this work. Furthermore, Tri-State shall be responsible for any failure with applicable documents.
- 2.3.2. Applicable documents include but are not limited to the following:
  - A Title 29, Code of Federal Regulations, Part 1910, Sections 1910.134, 1910.1001, and Part 1926.1101. Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.
  - B Title 40, Code of Federal Regulations, Part 61, National Emission Standards for Hazardous Air Pollutants. U.S. Environmental Protection Agency (U.S. EPA).
  - C Title 49, Code of Federal Regulations, Part 172, U.S. Department of Transportation.
  - D ANSI 86.1-1973 Commodity Specification for Air.
  - E California Administrative Code, Title 8, 22, and 26 and Regulation 11 Hazardous Pollutants, Rule 2 Asbestos and the Health and Safety Code.
  - F All Federal, State, County, and City regulations, codes, and ordinances as applicable.
- 2.3.3. The most current issue of each document shall apply. Where conflict among requirements or with these specifications exists, the more stringent requirement or interpretation shall apply.
- 2.3.4. The Contractor will provide at least one copy of any EPA, OSHA, State, or City regulations, code, or ordinance at the site available for review.



#### **2.4. Notices and Submittals**

Prior to commencement of this asbestos related work, Tri-State shall submit the following items:

- 2.4.1. Written Notice of Proposed activity to the applicable air pollution control agency(ies), not fewer than ten (10) days before beginning of work.
  - 2.4.2. Written Notice of Proposed activity to the OSHA Regional Office or any other agency having jurisdiction.
  - 2.4.3. Written proof that all required permits, licenses, and registrations have been applied for and/or received. This shall include Tri-State's Licenses and Asbestos Workers' Registrations.
  - 2.4.4. An executed Special Endorsement (Insurance) Form (if not submitted during contract phase).
  - 2.4.5. A notarized certification (optional) containing:
    - A. list of each employee (assigned to this project) by name and social security number
    - B. Indication that each person listed has received instructions on the hazards of asbestos exposure, on the proper use and fitting of respirators, on protective clothing, on the use of decontamination systems (including the proper entry and exit procedures), and on all work procedures and requirements, and that the employees understand these instructions.
  - 2.4.6. Executed certificates of Worker's Release Forms (if applicable).
  - 2.4.7. Proof of employee medical exams as required by OSHA regulations.
  - 2.4.8. A notarized (optional) certification of:
    - A selected approved landfill site locations,
    - B transport procedures (Sec. 49 CFR Part 172), and
    - C use of proper disposal methods.
- Note:** This may be waived until after cleanup and landfill receipts can be attached or affixed.
- 2.4.9. Display telephone numbers and locations of emergency services including but not limited to fire, ambulance, doctor, hospital, police, power company, and telephone company.

#### **2.5. Warning Signs and Labels**

- 2.5.1. Tri-State shall adhere to all warnings, labels, and the posting of such notices specified herein or required by Federal, State, or local agencies.



### **3.0 SAFETY**

#### **3.1. General**

Tri-State shall be solely responsible for the safety, efficiency, and adequacy of his equipment, and methods, and for any damages which may result from their improper construction, maintenance, or operations. Tri-State shall erect and properly maintain at all times, as required by the condition and progress of the work, proper safeguards for the protection of the workers and shall post warning signs around the regulated work areas.

- 3.1.1. Tri-State shall designate a competent person of his organization on the work site, whose duty shall be the detection, recognition, and prevention of accidents and potential accidents. This person shall be the supervisor.
- 3.1.2. Tri-State shall assume all responsibility for any toxic effects to workers of the air supplied to respirators. He shall also assume all responsibility for any toxic effects to personnel or property caused by airborne particulates, mists, vapors, or any wetting agent(s) and for the disposal of said agent(s) and any residual toxic damaging residues.

#### **3.2. Work Environment**

The asbestos abatement work environment is extreme. Tri-State shall be aware of the ever present dangers and shall take the appropriate preventive measures to protect the workers from extreme environments (hot, cold, humid, wet) as well as from exposure to asbestos fibers.

#### **3.3. Heavy Equipment**

Tri-State shall adhere to all applicable OSHA regulations and standards with regards to heavy equipment and proper use and maintenance. He shall also follow proper decontamination procedures when removing said equipment from the regulated work areas.



## **4.0 CLEARANCE STANDARDS**

### **4.1. Final Visual Clearance**

- 4.1.1. Prior to requesting final visual clearance, Tri-State shall perform an inspection of the regulated work areas. Upon visual clearance the work area may be encapsulated to reduce the possibility of migration of any remaining airborne asbestos fibers.
- 4.1.2. Upon request by Tri-State, Environmental Solutions will conduct a final visual clearance inspection.
- 4.1.3. In the event that Tri-state fails (due to negligence) to meet the prescribed clearance criteria on the first attempt, any additional time for inspection to achieve visual clearance may be back-charged.

### **4.2. Final Inspection**

The subject regulated work area shall be restored to its pre-asbestos abatement condition.

- 4.2.1. After thorough cleaning, begin restoration and tear-down of all barricades or barriers.
- 4.2.2. If other work is to be done as part of extended demolition, it can commence at this time.

### **4.3. Disposal of Contaminated Material, Wastes, and Objects**

- 4.3.1. All shipping will be in accordance with Title 49, Code of Federal Regulation, Part 172.
- 4.3.2. All non-friable asbestos waste must be shipped using the information on shipping papers and manifests.
- 4.3.3. All wastes shall be disposed of in a permitted, authorized, predetermined landfill.
- 4.3.4. All containers shall be properly marked and meet all applicable regulations, codes, or ordinances.
- 4.3.5. All truck dumping containers shall be enclosed and sealed en route to the landfill.

**Note:** Tri-State shall provide receipts from landfill for material deposited.

- 4.3.6. All respiratory requirements specified herein shall be complied with.



# **EXHIBIT II**

## **FIELD REPORTS**



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2601 E. Chevy Chase Drive, Glendale, CA 91206

## FIELD REPORT

Job No.: ES99-040

Project Name ASBESTOS PIPE ABATEMENT

Shift Start Date 6/24/99

Project Location: 19901 NORMANDIE AVE.

Contractor: TRI-STATE

Weather Condition: CLEAR & BREEZY

### DESCRIPTION:

\* 9:10 AM / ENVIRO. SOLUTIONS ON-SITE.

WE MEET W/ JOHNNY MARASCO ABOUT THE PROJECT'S DETAILS.

\* 9:20 AM / ES CALIBRATES TRI-STATE'S PERSONAL PUMP.

@ THIS TIME TRI-STATE HAS ONE SUPERVISOR & THREE ABATEMENT WORKERS.

OUR OBSERVATIONS INDICATE THAT SOMEONE / PARTY HAS POURED CONCRETE OVER THE TRANSITE PIPES ON-SITE. THIS SHALL MAKE THE CLEAN-UP PROCESS A LITTLE MORE DIFFICULT & TIME CONSUMING.

\* 9:35 AM / TRI-STATE WORKERS ARE SUITED UP & HAVE 1/2 FACE RESPIRATORS & ARE ABOUT TO START WORK. ENVIRO. SOLUTIONS ALSO STARTS TWO AIR SAMPLES USING LOW-FLOW AIR PUMPS.

THERE ARE SOME DIRT TRUCK TRAFFIC IN THE NEAR-BY AREA. THE WIND DIRECTION IS NOT CONSTANT.

TRI-STATE WORKERS ARE PICKING UP TRANSITE PIPE PIECES & PLACING THEM IN PLASTIC BAGS. ONE BACK-HOE IS BREAKING THE LARGE CONCRETE CASINGS SO THAT TRI-STATE WORKERS CAN ACCESS THE TRANSITE PIPE.

THE BACK-HOE / JACK HAMMER OPERATOR IS EQUIPPED W/ A RESPIRATOR. A WATER TRUCK WETS THE REGULATED WORK AREA (RWA) EVERY 1/2 HOUR.

TRI-STATE IS COLLECTING ONE PERSONAL AIR SAMPLE.

\* 10:45 AM / WORK CONTINUES AS DESCRIBED ABOVE.

\* 11:00 AM / ALL AIR SAMPLES BY ENVIRO. SOWT. ARE DISMANTLED FOR ANALYSIS.

FIELD TECHNICIAN (Print Name)

SIGNATURE/DATE



# ENVIRONMENTAL SOLUTIONS

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2601 E. Chevy Chase Drive, Glendale, CA 91206

## FIELD REPORT

Job No.: ED99-040

Project Name ASBESTOS PIPE ABATEMENT

Shift Start Date 6/25/99

Project Location: 19901 NORMANDIE AVE.

Contractor: TRI-STATE

Weather Condition: CLEAR & BREEZY

### DESCRIPTION:

\* 9:00 AM/ ENVIRO. SOLUTIONS ON-SITE. TRI-STATE W/ FOUR MEN ON-SITE.  
CURRENTLY, THE PROJECT STATUS IS AS FOLLOWS;

\* TRI-STATE WORKER W/ ALL MENTIONED PROTECTIVE EQUIPMENT CONTINUE W/ AN  
EAST TO WESTERLY DIRECTION SWEEP OF TRANSITE PIPE/PIECES PICKUP. & ON THE  
WEST END THE JACK HAMMER CONTINUES TO BREAK APART THE PIPE'S CONCRETE  
ENCASEMENTS. THE WIND IS BLOWING FROM SOUTH WEST.

\* 9:10 AM/ ENVIRO. SOLT. STARTS AIR SAMPLING @ ADJ. TO DOWNSTREAM WINDS.

\* 10:30 AM/ THE THREE MAN CREW CONTINUE TO SWEEP WESTWARD.

MEET W/ JOHNNY MARASCO ABOUT PROJECT'S PROGRESS. THE CONCRETE THAT  
WAS POURED ON THE R.W.A HAS HARDENED IN MOST THICKENED SECTIONS & IT  
HAS MADE FURTHER TRANSITE PIECE/PIPE RECOVERY MORE TIME CONSUMING.

\* 10:45 AM/ THE CREW IS LOADING THE BAGS OF TRANSITE PIPES ONTO THE  
BACK-HOE'S FRONT BUCKET TO TRANSPORT TO THE BIN. THE BIN HAS BEEN LINED  
W/ POLY & CONTAINS ON ITS BOTTOM.

\* 11:00 AM/ THE CREW STOPS FOR LUNCH BREAK. AIR SAMPLES STOPPED.

\* 11:30 AM/ ENVIRO. SOLT. OFF-SITE.

THE AIR SAMPLES ARE DISMANTLED & TAKEN OUT FOR PCM ANALYSIS.

FIELD TECHNICIAN (Print Name)

SIGNATURE/DATE



# ENVIRONMENTAL SOLUTIONS

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2601 E. Chevy Chase Drive, Glendale, CA 91206

## FIELD REPORT

Job No.: ES99-040

Project Name ASBESTOS PIPE ABATEMENT

Shift Start Date 6/28/99

Project Location: 19901 NORMANDIE AVE.

Contractor: TEL-STATE

Weather Condition: CLEAR & BREEZY

### DESCRIPTION:

\* 9:00 AM / ENVIRO. SOWT. ON-SITE. TEL-STATE W/ FOUR MEN & ONE SUP.  
ON-SITE. THE STATUS OF WORK IS AS FOLLOWS;

\* FOUR WORKERS ARE IN THE PROCESS OF AN EAST TO WEST SWEEP OF  
THE WORK AREA. THE PROCESS OF THIS SWEEP INVOLVES BREAKING AWAY  
THE SMALLER PIECES OF TRANSITE THAT ARE STILL ATTACHED TO THE CONCRETE  
& ALSO RETRIEVE THOSE TRANSITE PIECES TRAPPED BENEATH THE LARGER  
PIECES OF CONCRETE.

\* ENVIRO. SOLUTIONS IS PERFORMING A VISUAL SWEEP OF THE RWA.  
THE RWA IS STILL STAKED OUT & HAS A DECON ATTACHED TO IT.  
WE ALSO START AIR MONIT. @ OWA ON THE NORTHEAST & NORTHWEST.

\* 9:45 AM / THE SAME PROCESS AS DESCRIBED ABOVE IS STILL IN PROGRESS.  
TEL-STATE IS COLLECT ONE PERSONAL AIR SAMPLE. ALL POLY BAGS CONTAINING  
TRANSITE PIECES HAVE BEEN & ARE BEING TRANSPORTED TO & PLACED INSIDE OF  
A OPEN-TOP BIN ABOUT 50' AWAY FROM RWA VIA WHEEL BARREL.

\* 10:45 AM / ENVIRO. SOLUTIONS DISMANTLES THE AIR SAMPLES. FOR ANALYSIS.

\* 11:10 AM / ENVIRO. SOLUTIONS OFF-SITE.

FIELD TECHNICIAN (Print Name)

SIGNATURE/DATE





# ENVIRONMENTAL SOLUTIONS

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2601 E. Chevy Chase Drive, Glendale, CA 91206

## FIELD REPORT

Job No.: ES97-040

Project Name ASBESTOS PIPE ABATEMENT

Shift Start Date 6/29/99

Project Location: 19901 NORMANDIE AVE

Contractor: TRI-STATE

Weather Condition: CLEAR & BREEZY

### DESCRIPTION:

- \* 9:00 AM / ENVIRO. SOLUTIONS ON-SITE. TRI-STATE HAS A FIVE MAN CREW @ THE SITE. THE OBSERVATIONS ARE AS FOLLOWING.
  - \* THE EAST TO WEST FINAL CLEANING SWEEP CONTINUES.
  - \* TRI-STATE COLLECTING ONE PERSONAL AIR SAMPLE.
  - \* ENVIRO. SOLUTIONS STARTS AIR MONITORING.
  - \* WE MEET W/ JOHNNY MARASCO ABOUT THE PROJECT.
- \* 10:00 AM / THE FINAL CLEANUP SWEEP INCLUDES COLLECTING ALL VISIBLE PIECES OF TRANSITE / OR BROKEN PIECES OF TRANSITE FROM THE TOP SOIL. BAGS CONTAINING TRANSITE ARE ACCUMULATED & PLACED INSIDE THE BIN.
- \* 11:10 AM / ALL MONITORING AIR SAMPLES ARE GATHERED FOR ANALYSIS.
- \* 11:30 AM / ENVIRO. SOLUTIONS LEAVES THE SITE. TRI-STATE WORKERS ARE TAKING LUNCH BREAK.

FIELD TECHNICIAN (Print Name)

SIGNATURE/DATE



## ENVIRONMENTAL SOLUTIONS

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2601 E. Chevy Chase Drive, Glendale, CA 91206

### FIELD REPORT

Job No.: BS99-040

Project Name ASBESTOS PIPE ABATEMENT

Shift Start Date 6/30/99

Project Location: 19901 NORMANDIE AVE.

Contractor: TRI-STATE

Weather Condition: CLEAR & BREEZY

### DESCRIPTION:

\* 9:00 AM/ ENVIRO. SOLUTIONS ON-SITE. THE PROJECT STATUS IS AS FOLLOWS:

\* THE CLEAN UP DUE TO THE CONCRETE SPILL IS ABOUT 90% COMPLETE.

\* THE BACK-HOE IS DIGGING UP A DIFFERENT PIPE/TRANSITE ON THE EAST SIDE OF THE PROPERTY. THESE PIPE SECTIONS ARE BEING PLACED IN THE OPEN BIN.

\* THE WIND IS OUT OF THE WEST @ THIS TIME.

\* WE SET UP THE USUAL AIR MONITORING SAMPLES @ NE & NW OF RWA.

\* THE TRUCK TRAFFIC IS HIGH TODAY, MAKING IT DIFFICULT TO COLLECT HIGH VOLUME AIR SAMPLES.

\* 10:00 AM/ OUR VISUAL CLEARANCE SWEEP OF THE RWA INDICATES NO VISIBLE PIECES OF DEBRIS IN THE RWA. THE SOIL IS NOT TESTED FOR SMALL FIBER CONTENT & IS NOT DEEMED WARRANTED FOR SUCH PROJECT. THE <sup>ONE</sup> BW CONTAINING TRANSITE PIPE IS ALREADY TAKEN OUT & ON REMAINS.

\* 11:00 AM/ AIR SAMPLES ARE DISMANTLED & WE ARE OFF-SITE.

THE FINAL SWEEP/CLEANUP IS @ 95% & DECON REMAINS ON-SITE. THE CREW GOES ON LUNCH BREAK.

FIELD TECHNICIAN (Print Name)

SIGNATURE/DATE

**EXHIBIT III**

**AIR SAMPLING DOCUMENTATION**



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# ENVIRONMENTAL SOLUTIONS

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2601 E. Chevy Chase Drive, Glendale, CA 91206

## AIR SAMPLE DOCUMENTATION

JOB NUMBER: ES99-040 PROJECT NAME: UNDER GROUND PIPE ABATE CLIENT: BOEING REALTY CORP.  
CONTRACTOR: TEI-STATE PROJECT MANAGER: MIKE REZVANI TECHNICIAN: \_\_\_\_\_

SAMPLE NO	DATE	PUMP #	TIME ON TIME OFF	DURATION	VOLUME	LOCATION	OPERATION	AFC READER	QA/QC READER
040-01	6/24/99	LF04 3 l/min	9:20 11:00	80 min	240 lt	NORTH EAST OF WORK AREA	ABATEMENT OF TRANSITE PIPE	<.01 MR	1/4
040-02	6/24/99	LF01 3 l/min	9:40 11:00	80 min	240 lt	NORTH WEST OF RWA	" " " " " " " "	<.01 MR	1/4
040-03	6/25/99	LF04 3 l/min	9:10 11:30	140	420	NORTH EAST OF RWA	ABATEMENT OF TRANSITE PIPE	<.01 MR	1/4
040-04	6/25/99	LF01 3 l/min	9:10 11:30	140	420	NORTH WEST OF RWA	" " " " " " " "	<.01 MR	1/4
040-05	6/28/99	LF04 3 l/min	4:05 10:45	100	300 lt	NORTH/NORTHEAST OF RWA	FINAL CLEAN- SWEEP PROCESS	<.01 MR	1/4
040-06	6/28/99	LF01 3 l/min	9:05 10:45	100	300 lt	NORTH/NORTHWEST OF RWA	" " " " " " " "	<.01 MR	1/4



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# AIR SAMPLE DOCUMENTATION

SAMPLE NO	DATE	PUMP #	TIME ON TIME OFF	DURATION	VOLUME	LOCATION	OPERATION	AFC READER	QA/QC READER
040-07	6/29/99	LF04 3 g/min	9:10 11:10	120	360	NORTHWEST OF RWA	FINAL CLEANUP	<.01	t/u
040-08	6/29/99	LF01 30 g/min	9:10 11:10	120	360	NORTHEAST OF RWA	" "	.12 t/u	
040-09	6/30/99	LF04 2 g/min	9:15 10:15	60	120 lt	NW OF RWA	FINAL SWEEP	.018 t/u	
040-10	6/30/99	LF01 2 g/min	9:15 10:45	90	180 lt	NE OF RWA	FINAL SWEEP	.020 t/u	